13-5

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

APC 100

NON-TITLE V PERMIT APPLICATION
FACILITY IDENTIFICATION

Please type or print and submit in duplicate for each emission source. Attach appropriate source description forms.

SITE INFORMATION

1. **Organization's legal name** Tennessee Department of Transportation			For APC use only: Facility point no 57-0279-06
2. **Site name** (if different from legal name) TDOT - Jackson District Facility			APC Log/Permit no 049255G
3. **Site address** (St./Rd./Hwy.) 200 Benchmark Place			County name Madison
City or distance to nearest town Jackson		Zip code 38301	4. NAICS or SIC code 237310
5. **Site location** (in lat. /long.)	Latitude 35° 38' 18.05" N		Longitude 88° 55' 10.11" W

CONTACT INFORMATION (RESPONSIBLE PERSON)

6. **Responsible person/Authorized contact** John W. Nichols			Phone number with area code (615) 741-7432
Mailing address (St./Rd./Hwy.) 505 Deaderick Street Suite 300 J.K. Polk Building			Fax number with area code (615) 741-1098
City Nashville	State TN	Zip code 37243-0334	Email address john.nichols@tn.gov

CONTACT INFORMATION (TECHNICAL)

7. **Principal technical contact** Same As Responsible Person			Phone number with area code
Mailing address (St./Rd./Hwy.)			Fax number with area code
City	State	Zip code	Email address

CONTACT INFORMATION (BILLING)

8. **Billing contact** Same As Responsible Person			Phone number with area code
Mailing address (St./Rd./Hwy.)			Fax number with area code
City	State	Zip code	Email address

EMISSION SOURCE INFORMATION

9. **Emission source no.** (number which uniquely identifies this source)
Gasoline Dispensing Facility

10. **Brief description of emission source**
This gasoline dispensing facility consists three underground storage tanks and associated dispensers. Two of the tanks hold 10,000 gallons each; one being E-85 and the other being Diesel B20. The third tank is a 1,000 gallon diesel storage tank. All tanks were installed in 1999.

11. **Normal operation:**	Hours/Day 24	Days/Week 7	Weeks/Year 52	Days/Year 365
12. **Percent annual throughput**	Dec. – Feb. 25%	March – May 25%	June – August 25%	Sept. – Nov. 25%

(Over)

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

APC 100

NON-TITLE V PERMIT APPLICATION
FACILITY IDENTIFICATION

Please type or print and submit in duplicate for each emission source. Attach appropriate source description forms.

SITE INFORMATION

1. **Organization's legal name** Tennessee Department of Transportation			For APC use only: APC Company point no
2. **Site name** (if different from legal name) TDOT - Jackson District Facility			APC Log/Permit no
3. **Site address** (St./Rd./Hwy.) 200 Benchmark Place			County name Madison
City or distance to nearest town Jackson		Zip code 38301	4. NAICS or SIC code 237310
5. **Site location** (in lat./long.)	Latitude 35° 38' 18.05" N		Longitude 88° 55' 10.11" W

CONTACT INFORMATION (RESPONSIBLE PERSON)

6. **Responsible person/Authorized contact** John W. Nichols			Phone number with area code (615) 741-7432
Mailing address (St./Rd./Hwy.) 505 Deaderick Street Suite 300 J.K. Polk Building			Fax number with area code (615) 741-1098
City Nashville	State TN	Zip code 37243-0334	Email address john.nichols@tn.gov

CONTACT INFORMATION (TECHNICAL)

7. **Principal technical contact** Same As Responsible Person			Phone number with area code
Mailing address (St./Rd./Hwy.)			Fax number with area code
City	State	Zip code	Email address

CONTACT INFORMATION (BILLING)

8. **Billing contact** Same As Responsible Person			Phone number with area code
Mailing address (St./Rd./Hwy.)			Fax number with area code
City	State	Zip code	Email address

EMISSION SOURCE INFORMATION

9. **Emission source no.** (number which uniquely identifies this source)
Gasoline Dispensing Facility

10. **Brief description of emission source**
This gasoline dispensing facility consists three underground storage tanks and associated dispensers. Two of the tanks hold 10,000 gallons each; one being E-85 and the other being Diesel B20. The third tank is a 1,000 gallon diesel storage tank. All tanks were installed in 1999.

11. **Normal operation:**	Hours/Day 24	Days/Week 7	Weeks/Year 52	Days/Year 365
12. **Percent annual throughput**	Dec. – Feb. 25%	March – May 25%	June – August 25%	Sept. – Nov. 25%

(Over)

TYPE OF PERMIT REQUESTED

13. Operating permit (X)	Date construction started	Date completed	Last permit no.	Emission source reference number
	1999	1999		

Construction permit ( )	Last permit no.	Emission source reference number

If you choose Construction permit, then choose either New Construction, Modification, or Location transfer

	New Construction ( )	Starting date	Completion date
	Modification ( )	Date modification started or will start	Date completed or will complete
	Location transfer ( )	Transfer date	Address of last location

14. Describe changes that have been made to this equipment or operation since the last construction or operating permit application:

There have been no changes since installation.

SIGNATURE

Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application and any attached application(s) is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

15. **Signature** (application must be signed before it will be processed)		Date
John W. Nichols		August 29, 2014
Signer's name (type of print)	**Title**	**Phone number with area code**
John W. Nichols	Facility Compliance Coordinator	(

Table of Pollution Reduction Device or Method Codes

Note: For cyclones, settling chambers, wet scrubbers, and electrostatic precipitators; the efficiency ranges correspond to the following percentages:
High: 95-99+%. Medium: 80-95% And Low: Less than 80%.
If the system has several pieces of connected control equipment, indicate the sequence. For example: 008'010.97%
If none of the below codes fit, use 999 as a code for other and specify in the comments.

No Equipment....000
Activated Carbon Adsorption....048
Afterburner – Direct Flame....021
Afterburner – Direct Flame with Heat Exchanger....022
Afterburner – Catalytic....019
Afterburner – Catalytic with Heat Exchanger....020
Alkalized Alumina....040
Catalytic Oxidation – Flue Gas Desulfurization....039
Cyclone – High Efficiency....007
Cyclone – Medium Efficiency....008
Cyclone – Low Efficiency....009
Dust Suppression by Chemical Stabilizers or Wetting Agents....062
Electrostatic Precipitator – High Efficiency....010
Electrostatic Precipitator – Medium Efficiency....011
Electrostatic Precipitator – Low Efficiency....012
Fabric Filter – High Temperature....016
Fabric Filter – Medium Temperature....017
Fabric Filter – Low Temperature....018
Fabric Filter – Metal Screens (Cotton Gins)....059
Flaring....023
Gas Adsorption Column -- Packed....050
Gas Adsorption Column – Tray Type....051
Gas Scrubber (General: Not Classified)....013
Limestone Injection – Dry....041
Limestone Injection – Wet....042
Liquid Filtration System....049
Mist Eliminator – High Velocity....014
Mist Eliminator – Low Velocity....015
Process Change....046
Process Enclosed....054
Process Gas Recovery....060
Settling Chamber – High Efficiency....004
Settling Chamber – Medium Efficiency....005
Settling Chamber – Low Efficiency....006
Spray Tower (Gaseous Control Only)....052
Sulfuric Acid Plant – Contact Process....043
Sulfuric Acid Plant – Double Contact Process....044
Sulfur Plant....045
Vapor Recovery System (Including Condensers, Hooding and Other Enclosures)....047
Venturi Scrubber (Gaseous Control Only)....053
Wet Scrubber – High Efficiency....001
Wet Scrubber – Medium Efficiency....002
Wet Scrubber – Low Efficiency....003
Wet Suppression by Water Sprays....061

Table of Emission Estimation Method Codes

Not application / Emissions are known to be zero....0
Emissions based on source testing....1
Emissions based on material balance using engineering expertise and knowledge of process....2
Emissions calculated using emission factors from EPA publications No. AP-42 Compilation of Air Pollution Emissions Factors....3
Judgment....4
Emissions calculated using a special emission factor different from that in AP-42....5
Other (Specify in comments)....6

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

APC 114

NON-TITLE V PERMIT APPLICATION
GASOLINE DISPENSING FACILITY DESCRIPTION

Please type or print and submit in duplicate. Attach to the Non-Title V Facility Identification Form (APC 100).
Please complete one form for each facility if multiple owned.

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Organization name** TDOT - Jackson District Facility	For APC use only	APC Company – Point no
2. **Emission source no.** (As on Non-Title V Facility Identification Form) Gasoline Dispensing Facility		APC Log/Permit no

INDEPENDENT SMALL BUSINESS MARKETER OF GASOLINE (I.S.B.M)

3. Claiming Independent Small Business Marketer (I.S.B.M.) of Gasoline as stated in rule 1200-03-18-.24(2)? Yes ☐ No ☒

If yes, submit Notarized Certification stating that business satisfies the I.S.B.M. definition criteria found in 1200-03-18-.24(2) and provide the following information:

Owner's annual income from refining or marketing of gasoline:	
Owner's total annual income:	

GASOLINE TANK AND DISPENSER INFORMATION

4. List gas type, capacity, and type of tank (Aboveground or Underground. Circle one), and installation date for each tank at facility. Attach additional sheet if more than 10 tanks to list.

Tank #	Gas type	Capacity (Gal.)	Tank Type	Installation date	Tank #	Gas type	Capacity (Gal.)	Tank type	Installation date
1.	Diesel B20	10,000	AG / ☑ UG	1999	6.			AG / ☐ UG	
2.	Diesel	1,000	AG / ☑ UG	1999	7.			AG / ☐ UG	
3.	E-85	10,000	AG / ☑ UG	1999	8.			AG / ☐ UG	
4.			AG / ☐ UG		9.			AG / ☐ UG	
5.			AG / ☐ UG		10.			AG / ☐ UG	

5. Total number of gasoline nozzles:	3	Make:	Unknown	Model:	Unknown
6. Gasoline dispense make:	Tokheim	Model:	Unknown		

STAGE I AND II SYSTEM DESCRIPTIONS

7. Stage I system CARB executive order:		Installation date:	
8. Stage II system CARB executive order:		Installation date:	
Check general type of Stage II system:	Balance: ☐	Vacuum vapor assist: ☐	
9. Minimum slope of Stage II vapor return lines from dispensers to tank (inches per foot):			
10. Type of pressure vacuum vent valve (if installed) make:		Model:	

THROUGHPUT AND SUPPLIER

11. Maximum monthly throughput (Gal.):	8,000	Average yearly throughput (Gal.):	63,700

12. **Supplier of gasoline (company name)** Mansfield Oil Company			**Supplier of gasoline (contact name)**		
Mailing address (St./Rd./Hwy.) 1025 Airport Parkway SW			Mailing address (St./Rd./Hwy.)		
City Gainesville	State GA	Zip code 30501	City	State	Zip code
Phone number (800) 695 - 6626			Phone number		

Gasoline Dispensing Facility (GDF) Emission Calculations

Facility Name: TDOT - Gallatin District Garage
Emission Source Reference Number:
Maximum Monthly Throughput: 8,000 gallons
Scenario: 4 (as described below)

Emission Factor: 18.41 pounds/1000 gallons

Emissions

Daily: 4.84 pounds/day
Annual: 0.9 tons/year

Scenario	Scenrio Description	Loading	Breathing	Refueling	Spillage	Total
1	AG: No Control	8.4	2.1	8.4	0.61	**19.51**
2	AG: Phase I only	0.42	2.1	8.4	0.61	**11.53**
3A	AG: Phase I and II w/o Vent Valve	0.42	2.1	0.42	0.42	**3.36**
3B	AG: Phase I and II w/Vent Valve	0.42	0.525	0.42	0.42	**1.785**
4	UG: No Control	8.4	1	8.4	0.61	**18.41**
5A	UG: Phase I only	0.42	1	8.4	0.61	**10.43**
5B	UG: Phase I with Vent Valve	0.42	0.25	8.4	0.61	**9.68**
6A	UG: Phase I and II w/o Vent Valve	0.42	1	0.42	0.42	**2.26**
6B	UG: Phase I and II w/Vent Valve	0.42	0.25	0.42	0.42	**1.51**
6C	UG: 'Phase 1 EVR and II w/Vent Valve	0.168	0.25	0.42	0.42	**1.258**

Based on emission factors provided by SBCAPCD. Emission factors from AP-42, Table 5.2-7 do not contain